

Special Issue

Molecular Breeding and Agronomic Traits Improvement of Triticeae Crops

Message from the Guest Editors

Triticeae crops (wheat, barley, rye, and their wild relatives) provide food for more than 40% of the world's population and are essential for global food security. Recent advances in the dissection of complex traits of Triticeae crops have been made by integrating genomics, transcriptomics, and proteomics; the accelerated selection for yield, quality, and stress resistance traits by linking more genetic markers to these phenotypes; and gene editing (CRISPR), which enables precise modifications of important agronomic traits. These advances allow the continued progression of molecular breeding in Triticeae crops. This Special Issue highlights cutting-edge research on molecular breeding and agronomic trait improvement in Triticeae crops. We welcome studies on genetic dissection from QTL/GWAS, gene discovery using omics data, and precise breeding through marker-assisted selection or CRISPR approaches.

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